

TORONTO STOCK EXCHANGE

LISTING STATEMENT

OCT 15 1953

LORADO URANIUM MINES LIMITED

(No Personal Liability)

Incorporated under The Ontario Companies Act, Part XI, by Letters Patent dated April 10th, 1952.

1. Address of the Company's Head Office and of any other offices:
171 Yonge Street, Toronto, Ontario.

2. Officers of the Company:

OFFICE HELD	NAME	ADDRESS	OCCUPATION
President	Ashton William Johnston	169 Grenview Blvd., Toronto, Ontario	Consulting Geologist
Vice-President	Sidney Conboy Hetherington,	510 St. Clair Ave. E., Toronto,	Stockbroker
Secretary-Treasurer	Jessie Jenner	263 Lawrence Ave. E., Toronto, Ontario	Secretary

3. Directors of the Company:

NAME	ADDRESS	OCCUPATION
Ashton William Johnston	169 Grenview Blvd., Toronto, Ontario	Consulting Geologist
Sidney Conboy Hetherington	510 St. Clair Ave. E., Toronto, Ontario	Stockbroker
Jessie Jenner	263 Lawrence Ave. E., Toronto, Ontario	Secretary
Ewart Kenneth Fockler	9 Pote Ave., Toronto, Ontario	Consulting Geologist
Evan Thomas Donaldson	54 Dundas St. E., Toronto, Ontario	Prospector

4. Names and addresses of all transfer agents:
Guaranty Trust Company of Canada, 70 Richmond Street West, Toronto, Ontario.

5. Particulars of any fee charged upon transfer other than customary government taxes: .25c for each certificate issued in respect of any transfers upon the books of the Company.

6. Names and addresses of all registrars:
Guaranty Trust Company of Canada, 70 Richmond Street West, Toronto, Ontario.

7. Amount of authorized capital: \$3,000,000.00.

8. Number of shares and par value: 3,000,000 shares of \$1.00 each.

9. Full details of all shares issued in payment for properties or for any other assets other than cash:

Date	No. of Shares	Consideration
April, 1952.....	750,000	Gail Nos. 1 to 5 inclusive, and Alan Nos. 1 to 9 inclusive—aggregate consideration 750,000 shares.
February, 1953.....	150,000	An 85% interest in mineral claims Dot 2 to 22 inclusive—aggregate consideration \$17,500. cash, and 150,000 shares.
July, 1953.....	250,000	Chas 35 to 45 inclusive—aggregate consideration \$5,000. and 250,000 shares.
Total.....	1,150,000	

This listing statement is a copy of the listing application made by the applicant company. The Exchange has received no consideration in connection with the issue of this listing statement other than the customary listing fee. The papers and exhibits submitted by the applicant company in support of the listing application are open for inspection at the general office of the Exchange.

10. Full details of all shares sold for cash.	Date	Number of Shares	Price per Share	Amount realized by Company
	April 1952	5	\$1.00	\$ 5.00
	June 1	100,000	10c	10,000.00
	July 10 to Sept. 2	100,000	12½c	12,500.00
	Sept. 2 to Dec. 3 1953	100,000	15c	15,000.00
	Jan. 6 to Feb. 20	100,000	17½c	17,500.00
	Feb. 20 to May 4	150,000	20c	30,000.00
	Apr. 29 to Aug. 5	550,000	25c	137,500.00
	July 6 to July 15	100,000	30c	30,000.00
	Aug. 12	75,000	35c	26,250.00
	Total.....	1,275,005		\$278,755.00
11. Total number of shares issued.	2,425,005.			
12. Number of shares now in treasury or otherwise unissued.	574,995.			
13. Particulars of any issued shares held in trust for the Company or donated for treasury purposes.	None.			
14. Date of last annual meeting.	March 16th, 1953.			
15. Date of last report to shareholders.	March, 1953.			
16. Details of any treasury shares (or shares issued subject to payment or shares held for the benefit of the treasury) now under option or the subject of any underwriting or sales agreement. If none, this to be stated.	By agreement dated July 15th, 1953, Cradock Securities Limited of Toronto underwrote 400,000 shares at 25c per share and secured options on 200,000 shares at 35c per share, exercisable within four (4) months from July 29, 1953; 200,000 shares at 50c per share, exercisable within seven (7) months from July 29, 1953, and 200,000 shares at 65c per share, exercisable within ten (10) months from July 29, 1953. The underwritten shares and 75,000 optioned shares at 35c per share have been taken up.			
17. Details of any shares pooled, deposited in escrow, non-transferable or held under any syndicate agreement or control.	873,000 shares, part of the stock issued in payment for properties, as set out in item 9, are held in escrow by Guaranty Trust Company of Canada, at Toronto, subject to release only upon the consent of the Directors of the Company and of the Ontario Securities Commission.			
18. Details of any registration with or approval or authority for sale granted by or any filing with a Securities Commission or corresponding Government body.	By letter dated April 29th, 1953, the Ontario Securities Commission acknowledged receipt of the material required under The Securities Act (Ontario) and by letter dated July 29th, 1953, the said Commission acknowledged receipt of the amended material required under the said Act.			
19. Has any application for registration with or approval or authority for sale by or any filing with a Securities Commission or corresponding Government body ever been refused, cancelled or revoked? If so, give particulars.	No.			

<p>20. Particulars of any bonds, debentures, notes, mortgages, charges, liens or hypothecations outstanding.</p>	<p>None.</p>
<p>21. Enumerate fully, giving claim or property numbers, approximate acreage, townships and mining camp or oil field:</p> <p>(a) Properties owned where titles vested in Company.</p> <p>(b) Properties leased.</p> <p>(c) Properties otherwise held.</p> <p>Give particulars of title held by the Company in each instance (e.g. patented, unpatented, Crown granted, held under mining license, perpetual lease, etc.)</p>	<p>The Company is the owner, free from encumbrance, of the following unpatented mineral claims in the Province of Saskatchewan:</p> <p>Gail, Nos. 1 to 5 inclusive (grant Nos. S 8572 to S 8576 inclusive);</p> <p>Alan, Nos. 1 to 9 inclusive (grant Nos. S 8577 to S 8585 inclusive);</p> <p>Dix, Nos. 1 to 12 inclusive (grant Nos. S 11266 to S 11277 inclusive);</p> <p>An 85% interest in Dot Nos. 2 to 22 inclusive (grant Nos. S 10853 to S 10873 inclusive);</p> <p>A 70% interest in Lor Nos. 1 to 13 inclusive (grant Nos. S 11314 to S 11325 inclusive, and No. S 11301);</p> <p>Alco Nos. 1 to 7 inclusive (grant Nos. S 6964 to S 6969 inclusive and No. S 10908) and,</p> <p>Chas 35 to 45 inclusive (grant Nos. S 14771 to S 14781 inclusive).</p>
<p>22. Full particulars of any royalties or other charges payable upon production from each individual property.</p>	<p>None.</p>
<p>23. Are any lawsuits pending against the Company or any of its properties, or are there any other circumstances which might affect the Company's position or title adversely? If so, explain fully.</p>	<p>None.</p>
<p>24. Describe plant and equipment on property.</p>	<p>No plant, but Company owns various prospecting equipment, living equipment and field office equipment.</p>
<p>25. Describe development accomplished and planned.</p>	<p>Diamond drilling, prospecting, geiger-counter surveying, stripping, and rock trenching has been done and further work of this nature will be continued.</p> <p>In addition, it is planned to sink a three-compartment shaft and do underground development on the Alco group of claims.</p>
<p>26. Date and author of mining engineer's or petroleum geologist's report filed with this application and available for inspection on request.</p>	<p>29th August, 1953, Colin S. Johnston, P.Eng.</p>
<p>27. Full particulars of production to date.</p>	<p>None.</p>

28. Have any dividends been paid? If so, give date, per share rate, and amount paid in dollars on each distribution.	None.
29. Name and address of the solicitor or attorney whose certificate that the applicant is a valid and subsisting company and that the shares which have been allotted and issued were legally created and are fully paid and non-assessable has been filed with the Exchange.	Lang, Michener & Cranston, Room 1202, 50 King Street West, Toronto, Ontario.
30. (a) Have any shares of the Company ever been listed on any other stock exchange? If so, give particulars.	No.
(b) Is any application for listing the shares of the Company on any other stock exchange now pending or contemplated? If so, give particulars.	No.
(c) Has the listing of any shares of the Company ever been refused or deferred on any stock exchange? If so, give particulars.	No.
31. Particulars of the principal business in which each director has been engaged during the past five years, given the length of time, position held and name of employing company or firm.	ASHTON WILLIAM JOHNSTONE, Consulting Geologist, self-employed. SIDNEY CONBOY HETHERINGTON, Stock Broker, associated with Andras, Hatch & McCarthy, (formerly Stanton, Hatch & McCarthy), Members of Toronto Stock Exchange. EWART KENNETH FOCKLER, Consulting Geologist, self-employed. JESSIE JENNER, Secretary with C. R. Jenner & Co., Broker-Dealers. EVAN THOMAS DONALDSON, Prospector, self-employed.

Dated at Toronto, Ontario, the 4th day of September, 1953.



LORADO URANIUM MINES LIMITED
(No Personal Liability)

"JESSIE JENNER," *Secretary*

"S. C. HETHERINGTON," *Vice-President*

STATEMENT SHOWING NUMBER OF SHAREHOLDERS as of August 31, 1953

<i>Number</i>				<i>Shares</i>
107	Holders of	1 - 100 shares.....		8,333
316	" "	101 - 1000 ".....		169,609
41	" "	1001 - 2000 ".....		69,100
21	" "	2001 - 3000 ".....		56,700
10	" "	3001 - 4000 ".....		38,100
14	" "	4001 - 5000 ".....		70,000
59	" "	5001 - up ".....		2,013,163
568	Stockholders		Total Shares.....	2,425,005

FINANCIAL STATEMENT

BALANCE SHEET AS AT 31 JULY, 1953

ASSETS

CURRENT:

Cash in Banks.....	\$180,621.32	
Loans to Other Companies.....	10,000.00	
		<u>\$190,621.32</u>

SHARES IN OTHER COMPANIES:

New Delhi Gold Mines Limited at record value—30,000 free shares.....	\$ 1.00	
Bonville Gold Mines Limited at record value—3,000 free shares and 135,000 pooled shares.....	1.00	
		<u>2.00</u>

FIXED:

Unpatented Mining Claims—		
100 per cent interest in 14 claims—acquired by the issuance of 750,000 shares at a price of 10 cents per share.....	\$ 75,000.00	
100 per cent interest in 7 claims—acquired by cash.....	25,000.00	
100 per cent interest in 11 claims—acquired by cash—\$5,000.00, and the issuance of 250,000 shares at a price of 10 cents per share.....	30,000.00	
100 per cent interest in 12 claims—acquired by staking, etc., at cost.....	700.00	
85 per cent interest in 21 claims—acquired by cash, \$17,500.00, and the issuance of 150,000 shares at a price of 10 cents per share.....	32,500.00	
70 per cent interest in 13 claims—acquired by staking, etc., at cost.....	600.00	
		<u>\$163,800.00</u>

Equipment—

Camp and Mining at cost.....	\$6,043.53	
Less: Provisional amount written off.....	1,005.50	
		<u>\$5,038.03</u>
Head Office.....	94.00	
		<u>5,132.03</u>

168,932.03

DEFERRED CHARGES:

Development and Administration Expenses, as per schedule.....	\$ 28,085.20	
Incorporation Expenses.....	2,074.25	
		<u>30,159.45</u>
		<u><u>\$389,714.80</u></u>

LIABILITIES

CURRENT:

Accounts Payable and Accrued Liabilities.....	\$ 2,432.49
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CAPITAL AND SURPLUS

AUTHORIZED:

3,000,000 shares of \$1.00 each.....	<u>\$3,000,000.00</u>
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ISSUED CAPITAL:

For Unpatented Mining Claims and/or interest therein—1,150,000 shares.....	\$1,150,000.00	
Less: Discount thereon.....	1,035,000.00	
		<u>\$115,000.00</u>
For Cash—1,050,005 shares.....	\$1,050,005.00	
Less: Discount thereon.....	835,000.00	
		<u>215,005.00</u>

330,005.00

Capital Surplus—as per schedule.....	<u>57,277.31</u>
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\$389,714.80

Approved on behalf of the Board:

"S. C. HETHERINTON", *Director.*
"JESSIE JENNER", *Director*

Notes.—Unissued shares at 31 July, 1953, were 799,995, of which 750,000 shares were under options for \$337,500.00. Of the said options, 225,000 shares have been paid for and taken up for a cash consideration of \$63,750.00. If as and when exercised in full the remaining 525,000 shares under the aforementioned options will net the Company's treasury \$273,750.00.

CERTIFICATE

We have examined the above Balance Sheet of Lorado Uranium Mines Limited (No Personal Liability) at 31 July, 1953, and in connection therewith made a general review of the accounting methods and examined or tested the accounting records of the Company, but did not make a detailed audit of the transactions.

Based on our examination and to the best of our information and explanations given us, we report that, in our opinion, the above Balance Sheet is properly drawn up so as to exhibit a true and correct view of the position of the Company's affairs at 31 July, 1953, and is in accordance with the books of the Company.

W. E. JOHNSON AND COMPANY,
Chartered Accountants.

Toronto, 2nd September, 1953.

CAPITAL SURPLUS AS AT 31 JULY, 1953

SALE OF INTEREST IN CERTAIN UNPATENTED MINING CLAIMS:

Cash Consideration.....				\$24,000.00
Share Consideration—				
New Delhi Gold Mines Limited—Free Shares.....	60,000			
		Shares Sold.....	30,000	Proceeds.....
		Shares on Hand.....	30,000	Record Value.....
				1.00
			60,000	
Bonville Gold Mines Limited.....	150,000			
Free Shares Sold.....	12,000	Proceeds.....		9,080.73
Free Shares on Hand.....	3,000	Record Value }		1.00
Pooled Shares.....	135,000	Record Value }		
			150,000	\$58,577.31
Less: Cost of Staking, etc.....				1,300.00
BALANCE AT CREDIT, 31ST JULY, 1953.....				\$57,277.31

SCHEDULE OF DEFERRED DEVELOPMENT AND ADMINISTRATION EXPENSES AS AT 31 JULY, 1953

	Balance 31 Dec., 1952	Added 1 Jan. to 31 July, 1953	Balance 31 July, 1953
DEFERRED DEVELOPMENT:			
Assays.....	\$ 133.00		\$ 133.00
Bank Charges.....	77.76	240.44	318.20
Camp Equipment.....	1,005.50		1,005.50
Engineers' and Geologists' Fees.....	1,000.00	1,200.00	2,200.00
Equipment Rentals.....	152.00		152.00
General.....	45.40	324.31	369.71
Insurance—Equipment.....		64.20	64.20
Licenses, Taxes, etc.....	1,705.00	339.40	2,044.40
Management Fees.....	1,872.75	1,200.00	3,072.75
Maps, etc.....	342.90	344.05	686.95
Office Services.....	117.19	260.00	377.19
Repairs to Equipment.....		158.50	158.50
Supplies.....	657.41	865.43	1,522.84
Telephone and Telegraph.....	113.18	155.40	268.58
Transportation and Travelling.....	2,464.92	1,537.93	4,002.85
Undistributed Charges.....		1,207.51	1,207.51
Unemployment and Compensation Insurance.....	164.59	202.97	367.56
Wages.....	3,329.95	3,965.82	7,295.77
	<u>\$13,181.55</u>	<u>\$12,065.96</u>	<u>\$25,247.51</u>
Less:			
Rent Received on Equipment.....		90.00	90.00
Charged to Unpatented Mining Claims re Staking, etc.	2,600.00		2,600.00
	<u>\$10,581.55</u>	<u>\$11,975.96</u>	<u>\$22,557.51</u>
DEFERRED ADMINISTRATION:			
General.....	\$ 15.00	\$ 34.00	\$ 49.00
Legal and Audit.....	625.00	600.00	1,225.00
Office Services.....	209.75	166.11	375.86
Prospectuses and Publications.....	825.00	655.00	1,480.00
Secretarial Salaries.....	800.00	700.00	1,500.00
Stationery.....	41.62	118.00	159.62
Transfer Agent's Fees.....	475.00	233.21	708.21
Travelling.....		30.00	30.00
	<u>\$ 2,991.37</u>	<u>\$ 2,536.32</u>	<u>\$ 5,527.69</u>
TOTAL DEVELOPMENT AND ADMINISTRATION EXPENSES.....	<u>\$13,572.92</u>	<u>\$14,512.28</u>	<u>\$28,085.20</u>

ENGINEER'S REPORT

Foreword:

The firmly established position of the Athabaska Uranium field on the North American continent is now so well known that no re-assertion of this statement is necessary here. Its location too, on the easterly northern shore of Lake Athabaska, some 500 air miles from Edmonton, is equally well known. Its easy accessibility by large passenger and freighting aircraft operated daily by Canadian Pacific Airlines; Northern Transportation's great fleet of barges providing the last word in water transport from end-of-steel at Fort McMurray; the miracles of Eldorado and Gunnar; the flourishing young town of Uranium City and the far-flung staking and development programs—all of these are by-words. The camp has entered production and proven ore bodies are already of such magnitude as to guarantee it a long life.

The camp's optimists (of whom there are many) would say that half the story has not yet been told. Realists will grant that current developments in the Athabaska field give abundant reason for entertaining the most optimistic outlook for the future.

Introduction:

This company was incorporated by Ontario Charter early in 1952 to acquire, from time to time, various favourably located groups of claims in and around the Beaverlodge area of the Athabaska field. The principals of the company were peculiarly fitted to carry out this policy by virtue of the fact that they had had competent field parties in the district steadily since the season of 1949. It is not surprising, therefore, that the present holdings of the company embrace five separate groups of well located claims varying in merit classification from "outstanding" to "good bets"—with the balance decidedly in favour of the former. These total 78 claims in all, containing 3,720 acres.

In order of importance (as of this date) these groups are as follows:—

1. The Alco Group, 7 claims, 350 acres centrally located in the northerly section of the Crackingstone Peninsula.
2. The Gail-Allen-Dix Group, 26 claims, 1120 acres lying only slightly over one mile southeast of Eldorado's Ace shaft.
3. The Lor Group, 13 claims, 700 acres, along the St. Louis Fault some six miles northeast of the Ace shaft.
4. The Dot Group, 21 claims, 1050 acres, also along the St. Louis Fault on Forget Lake, about twelve miles northeast of the Ace shaft.
5. The Chas Group, 11 claims, 500 acres, lying in the original Orbit Concession (PP) about one mile north of Orbit Bay, a harbour in Black Bay of Lake Athabaska.

General Geology, Topography:

The regional geology of the Athabaska field differs from most sections of the Pre-Cambrian shield in two rather important respects—its extreme ruggedness and the almost total absence of the—elsewhere common—older basement complex of volcanics.

As a result, the oldest rocks present in the district are, strangely, the sedimentary dolomites, quartzites and variations with the so-called mafics (a basic complex)—these all known as the Tazin Series. Following these are intrusive granites of two ages: the older (commonly gneissic), and more often than not para-gneissic; and the younger even-grained and sometimes pegmatitic with a strong suspicion of having a genetic connection with the uranium deposits.

The younger Athabaska Series of sandstones, arkoses and conglomerates rest unconformably on the older rocks in certain sections of the region. In a considerable area (around Martin Lake) these are intercalated with basaltic flows of simultaneous age where they form a structural basin which has been extensively faulted with the introduction of uranium values in the basalts. The youngest rocks in the area are indiscriminately scattered, sparse, diabase dikes.

Except for the area lying east of Beaverlodge Lake (where much structural disturbance has taken place) the prevailing strike of all formations in the district is predominantly north-easterly and the general dip rather steeply to the southeast. The region is marked by many fault lineaments—great and small—the more pronounced of these being the St. Louis, Black Bay and Orbit Faults, all of which have several lesser, sub parallel to transverse, fractures intersecting them in places. It has long been known that the faulting is an important factor in the localising of the ore deposits.

While dotted by numerous lakes of all sizes, very few of the connecting streams are navigable by canoe. There are surprisingly good stands of spruce, jackpine, birch and poplar in places.

Properties:

The five groups constituting Lorado's holdings will be dealt with in succession. The various groups may easily be identified on any one of the many maps published of the Athabaska District and readily available.

THE ALCO GROUP

Claim Numbers, Access:

This group of seven contiguous claims (only recently acquired by purchase) are known as the Alco Nos. 1 to 7 and are recorded as Numbers S-6964-69 (inclusive) and S-10908. Being only a very short distance from the central southwesterly end of Beaverlodge Lake—in the north end of the Crackingstone Peninsula—they are readily accessible from this body of water and at all seasons. The main power line leading to the old Box Mine, traverses the region at the immediate north end of the group.

Geological and Structural Features:

Having been so recently acquired, detailed surface geological mapping has not yet been done. The property has, however, been carefully prospected and is shown on the regional map (1015A)—Goldfields, Martin Lake Sheet—of the Geological Survey of Canada (A.M. Christie). The claims are underlain by an extensive, centrally located, belt of mafic rocks included in a large body of quartzitic rocks (to the west and a substantial tongue, on a large scale, of granite gneisses lying along the property's eastern boundary. Over-all strike of all formations appears to be, in the main, northeasterly—the prevailing dip to the southeast.

From diamond drilling done thus far, it is quite possible that many local departures from this over-all picture may occur. Several minor tongues and lenses of quartzites (which, incidentally, impart competency to the general zone of values) are encountered. It is not clear at this stage, indeed, what exactly will be the plunge of these structures. This phase is expected, however, to quickly become clarified.

The zone of values presently being investigated by diamond drilling (started about the middle of July) lies in an area of largely mafic rocks where surface manifestation is that of a lower, somewhat swampy sector, the less resistant mafics having given way to the effects of glaciation. While some evidence of red hematitic stain is present, yet practically no uranium stain is found. Nevertheless, persistently high readings on the third scale of the geiger counter probe have been had for very considerable widths, as will be seen from the tabulations to follow.

The rock type producing the values is a somewhat heterogeneous assemblage of mafic types running considerably to chlorite-graphite schists often highly altered with sericitic development. There are moderate disseminations of pyrite and marcasite. In places, this mineralization can be described as "heavy" and here there is likely to be massive graphitic development. Heavy red hematite stain and evidence of leaching are not uncommon.

Very encouraging values were had from two short X-ray diamond drill holes put down by previous operators in this immediate zone. The first of these holes (XR-2) gave an assay of 0.11 U₃O₈ over 12.5 feet. A similar return was had from the second hole (XR-3). Further, character samples taken from four different sections of the X-ray core on the property (these in addition to the original sampling) gave returns of .04; .08; .09 and .16% U₃O₈ respectively, by radiometric assay.

The larger "A" core program was hence started in this area. Results quickly corroborated the viewpoint of the Lorado management. The mafic band, now known to be much wider than shown on present geological maps, extends down through the southwesterly axis of the claim group into further large areas of swampy ground around the L-shaped bottom of the group. Just north of the north boundary of the L-section of the Lorado property lies the well-known "Tamblyn" showing on the Nesbitt-Labine property here. There is an intriguing low-ground area about the small (Footprint) Lake on the Lorado ground here. It is in the Company's drilling program to investigate this area as well.

Diamond Drilling Values:

Eight diamond drill holes have been bored to date, using "A" core. A map showing the location of these holes (as well as the two previously drilled X-ray holes) accompanies this report. Immediately proposed holes are also indicated.

Following is an outline summary of the results of this drilling as of the time of writing this report. It will be noted that assay results are only available from the first three holes drilled. Also, that further sampling even of these holes is indicated. One of the most important reasons, however, for drilling uranium ore bodies is to enable the management to probe the holes with the geiger counter diamond drill probe, an uncanny instrument which, properly handled, gives a practically unerring index to values in the area of the hole.

To the writer's knowledge, these readings were painstakingly recorded by experienced operators. All are on file in the Mine Office records. Probe results are, happily, available for all eight holes.

Follows the hole-by-hole summary:

Dip—44 degrees. Lineal footage—226 feet.

Hole A-1

RADIOACTIVITY
112 ft. - 118 ft., high on 2nd and 3rd scales
155 ft. - 173 ft., high on 2nd scale
192 ft. - 194 ft., high on 2nd scale
202 ft. - 212 ft., high on 2nd scale
221 ft. - 222 ft., high on 2nd scale

Further sampling is to be done on this hole.

RADIOMETRIC ASSAYS TO HAND

From	To	Width	% U ₃ O ₈	Value
112.8	117.8	5.0 ft.	.201	\$29.15
164.5	174.5	10.0 ft.	.055	\$ 7.97
190.5	195.0	4.5 ft.	.09	\$ 9.64

GEOLOGIST'S REPORT (Continued)

Hole A-2

Dip—45 degrees. Lineal footage—271 feet.

RADIOACTIVITY

79 ft. - 88 ft., high on 2nd scale and mostly on 3rd scale
88 ft. - 94 ft., high on 2nd scale
94 ft. - 97.5 ft., 3rd scale
97.5 ft. - 99 ft., high on 2nd scale
99 ft. - 108 ft., 3rd scale

RADIOACTIVITY

108 ft. - 113 ft., mostly high on 2nd scale
116 ft. - 119 ft., fairly high on 2nd scale
119 ft. - 123 ft., high on 3rd scale
123 ft. - 135 ft., high on 2nd scale or on 3rd scale
135 ft. - 206 ft., 2/3rd readings on 2nd scale
250 ft. - 257 ft., high on 2nd scale

This constitutes a quite remarkable recording of persistently high probe readings.

RADIO-ACTIVITY RADIOMETRIC ASSAYS TO HAND:

From	To	Width	$\frac{\%}{\text{U}_3\text{O}_8}$	Value
64.5	68.5	4.0 ft.	.056	\$ 8.12
79.0	104.0	25.0 ft.	.114	\$16.53
104.0	134.0	30.0 ft.	.11	\$15.95

Hole A-3

Dip—45 degrees. Lineal footage—194 feet.

RADIOACTIVITY

50 ft. - 67 ft., medium on 2nd scale
70 ft. - 83 ft., high on 2nd scale or on 3rd scale
83 ft. - 88 ft., medium on 2nd scale
89 ft. - 96 ft., high on 2nd scale
104 ft. - 105.5 ft., high on 2nd, mostly 3rd scale
126 ft. - 139 ft., high on 2nd, partly on 3rd scale
153 ft. - 159 ft., high on 2nd, partly on 3rd scale

RADIOMETRIC ASSAYS TO HAND

From	To	Width	$\frac{\%}{\text{U}_3\text{O}_8}$	Value
76.5	98.2	21.7 ft.	.085	\$12.33
131.5	139.0	7.5 ft.	.061	\$ 8.85
153.5	160.0	6.5 ft.	.095	\$13.78

It will probably be necessary to deepen this hole and further sample.

Hole A-4

Dip—45 degrees. Lineal footage—321 feet.

RADIOACTIVITY

46 ft. - 78 ft., mostly low on 2nd scale
158 ft. - 166 ft., mostly high on 2nd scale
247 ft. - 250 ft., fair on 2nd scale

No assays are yet available. A deep hole is being drilled under this location.

Hole A-5

Dip—45 degrees. Lineal footage—312.5 feet.

RADIOACTIVITY

This hole gave only a few scattered 2nd scale readings. A deeper hole will be drilled under it.

Hole A-6

Dip—54 degrees. Lineal footage—345.5 feet.

RADIOACTIVITY

158 ft. - 163 ft., mostly high on 2nd scale or on 3rd scale
249 ft. - 278 ft., 2/3rd counts fair on 2nd scale
278 ft. - 287 ft., high on 2nd scale or on 3rd
292 ft. - 320 ft., 2nd scale (dropping from high to low)

Hole A-6 completed.

Hole A-7

Dip—54 degrees. Lineal footage—399 feet.

165 ft. - 192 ft., mostly fair on 2nd scale
204 ft. - 216 ft., most high on 2nd scale
249 ft. - 259 ft., high on 3rd scale

295 ft. - 307 ft., fair on 2nd scale
371 ft. - 375 ft., high on 2nd scale or on 3rd.

This is, of course, a splendid hole. No assay results are yet available.

Hole A-8

Dip—54 degrees. Lineal footage—429 feet.

RADIOACTIVITY

120 ft. - 123 ft., high on 2nd scale, or on 3rd
126 ft. - 146 ft., generally high on 2nd scale, or on 3rd.
221 ft. - 229 ft., mostly higher on 2nd scale
230 ft. - 253 ft., mostly high on 2nd scale, or on 3rd
279 ft. - 300 ft., variable on 2nd scale
392 ft. - 397 ft., high on 2nd scale, hits 3rd.

A fair hole. No assays yet available.

Conclusion:

From results obtained to date and daily being brought to light it is highly probable that a very substantial tonnage of lower medium grade ore will be put in sight by a vigorous development program. The grade of the ore is envisioned as being in the neighborhood of 0.1% U_3O_8 (\$14.50). This does not by any means rule out the possibility of much higher grades since values of over 0.2% have already been intersected.

However, the stage has already been reached where a more comprehensive and effective job of exploration can be carried on by underground approach. The more so since the advantageous summer working conditions are fast slipping by.

The property has extensive areas of favorable formation yet to be probed by surface diamond drilling which, of course, should be continued. One such area of paramount importance is the Lorado (Alco) ground adjacent to the Tamblin showing on the neighboring Nesbitt-Labine property.

The writer has a high regard for the possibilities of the property responding admirably to an aggressive program.

Recommendations:

It is recommended that a three-compartment shaft of standard dimensions be sunk and underground development operations be started at the earliest possible moment.

Further, it is recommended that surface diamond drilling be continued vigorously while the favorable weather continues, adding a second drill, if this seems advisable, to accomplish the Company's aims on scheduled time.

THE GAIL-ALAN-DIX GROUP

Claim Numbers, Access:

The 26 contiguous claims of this group consist of the following:
Gail Nos 1 to 5 (inclusive). Grant Nos. S-8572 to 76 (inclusive).
Alan Nos. 1 to 9 (inclusive). Grant Nos. S-8577 to 85 (inclusive).
Dix Nos. 1 to 12 (inclusive). Grant Nos. S-11266 to 77 (inclusive).

Geology, Showings, Work Done:

Mafic rocks, a goodly percentage of which have added granitic material, underly a fair proportion of this group of claims. Otherwise, chiefly to the northeast, granite gneiss predominates, relieved by a fair sized belt of quartzites on country strike (northeast) lying in the central southeasterly quarter of the property. These rocks, coupled with a local east-west lineament intersecting a more pronounced north-east line of weakness, provide a good structural condition.

GEOLOGIST'S REPORT (Continued)

The 26 claim group is bounded on the northwest by the Radiore property, which was optioned to Eldorado some time ago. To the north lies the Fish Lake group of Baska Uranium. Prospecting and geiger survey work carried out in 1951 uncovered a radioactive showing of interest on the Gail 4 claim.

Three X-ray drill holes were put down on this showing in the spring of 1952 and two on another showing on a possible fault a short distance to the southeast. Readings on the third (high) scale were obtained in one of the three holes (pitchblende was noted in one place in this hole), while medium scale readings were obtained in the first of the two holes. (The other hole could not be probed on account of freezing.)

It may now be added that recent assessment work done by Pionjar rock drill on the first showing has revealed much stain and high "kicks" for a length of 30 feet.

Conclusions and Recommendations:

Obviously, this property is fraught with much promise and merits further surface work and diamond drilling. This is recommended and should take the form of further Pionjar drill work and "A" core drilling, the latter to investigate the N.E.-S.W. creek fault.

THE LOR GROUP

Claim Numbers, Access:

The claims, known as the Lor claims, numbers 1 to 13, are recorded as Nos. S-11314 to 11325 (inclusive) and S-11301.

Geology, Work Done, Showings:

The group was acquired in the staking rush of the 4th of August, 1952, when many such prizes were picked up.

It has been subjected to geiger counter surveying, prospecting, stripping and considerable rock trenching. This work has obviously been conducted in a most efficient manner.

The writer was at once impressed with the recurring areas throughout the property in which brick-red discoloration, a coveted condition, is developed. The group is largely underlain by granitized para-gneisses now regarded, over all, as probably the most desirable formation in the Athabaska Field. The granitic rocks retain, in isolated patches, relic masses of the mafic (basic) rocks common to the district as well as lesser inclusions of quartzites. These rocks are chiefly in that area of the property lying to the southwest of Viking Lake.

Far transcending in importance the rock formations underlying the property are the many faults and lineaments traversing large sections of the ground. These are chiefly towards the northeasterly quarters of the claim group and are doubly significant here since they strike into the St. Louis Fault itself, coupled with the fact that important showings have been uncovered in this general area. Worthy of note is the fact that the prevailing dip of all formations on the property is steeply to the south—also the dip of the St. Louis Fault.

Radioactive showings of merit have been discovered in at least five locations—all of them on higher ground. On two of them substantial rock trenches have been blasted out and have showings of first-rate importance across widths of 7 feet (west trench) and 5 feet (east trench). Both of these showings are on Lor 5 claim. However, it may be said that persistently high geiger counter readings are obtained across these widths in the respective trenches. The readings are highest in the east trench. Both trenches are in strong shears with the east trench showing a sharply defined north wall along a local band of mafic rocks.

Conclusions:

As is well known, staking has been carried on far out along the St. Louis Fault zone to the northeast. The Lor group, however, is one of the properties lying close in towards the productive area of the camp. At this point the St. Louis Fault has two parallel branches with well-defined connecting fractures, resulting in a somewhat "echeloned" pattern where zones of dilation might be looked for. The faulting on the Lor group undoubtedly represents the southeastern extension of the southerly-deflected St. Louis Fault.

Recommendations:

As a next step it is recommended that a series of deep diamond drill holes be bored in the St. Louis Fault area of the property (towards the northeast). These holes should have a fairly steep dip and the number of holes drilled could be gauged by the amount of funds allocated for the purpose. The writer feels that this program should not be too limited and that results will amply justify the expenditure and indicate a more extensive program. It is strongly recommended that, when laying out this program of diamond drilling, free use be made of aerial photographs of the immediate area.

THE DOT GROUP

Claim Numbers, Access:

These 21 claims contiguously staked are known as the Dot Nos. 2 to 22 (inclusive) and bear Grant Nos. S-10853 to 73 (inclusive).

They lie along the northwest shore of Forget Lake for the most part, the lake constituting a good landing site for aircraft.

Geology and Structural Features:

A strong band of quartzites dominates the rock members underlying the claim group with a pronouncedly northeast strike and a steep southeasterly dip. The quartzites are, in the main, surrounded by granite gneisses. This whole assemblage, however, which lies along the southeasterly side of the St. Louis Fault extension some 12 miles northeast of the Eldorado Ace shaft, has an abrupt contact (on the fault) with mafic rocks on the northwest side of the fault. As the fault dips steeply to the southeast, herein lies the attractive structure which the Dot group enjoys. Probably no better hanging wall exists in the Athabaska camp than that of a strong band of quartzites. Coupled with this condition is the fact that in several places on the high ground (in the quartzite areas) zones of radioactivity were picked up. The assessment work has just recently been done on the property.

Conclusions and Recommendations:

When the time is considered ripe to launch a development program on the Dot group it should only take the form of a series of steep (and deep) diamond drill holes along the southeast side of the St. Louis Fault pointing in a northwesterly direction. Such a program should have a better than even chance of intersecting values.

THE CHAS GROUP

Claim Numbers, Access:

The Chas Group embraces Claim Numbers 35 to 45 (inclusive) recorded as numbers S-14771 to S-14781 (inclusive)—an area of approximately 500 acres.

The claims are easily reached by trail—less than one mile north of Orbit Bay, which is a protected harbor in the larger Black Bay of Lake Athabaska accessible by skiff or aircraft. The trail could easily be constructed into an excellent road.

Geological and Structural Aspects:

The regional geology of the area, including the rocks underlying the Chas Group, was mapped by F. J. Alcock, of the Geological Survey of Canada, in 1935 and shows on the Tazin Lake Map-Sheet as granitic formation including granodiorites, pegmatite, gneisses and gneissic sediments. The presence of these formations is substantiated by the writer, who has traversed the group. Later, more detailed study of the region has been conducted by W. E. Hale, of the G.S. of C., but this map is not yet issued.

However, it is now a well recognized fact that granite and granite-gneiss (of the type occurring in the Athabaska field) constitute some of the most favorable prospecting formations in the district.

As has always been the case in this uranium field, structure supercedes, in importance, formation. The major regional lineament of the immediate area, the Orbit Fault, extending for 12½ miles from Black Bay to Le Blanc Lake, runs through the northern, easterly section of the claim group for a distance of at least two claim lengths. In addition, several minor transverse and subsidiary fractures are detectable from an examination of aerial photographs of the claims. Potentially important low ground areas are also dispersed throughout various sections of the property. A fairly large lake occupies a central position in the group, while the northwest corner encroaches substantially into a still larger lake (Triangle Lake).

Conclusions and Recommendations:

To use a hackneyed expression, the property presents a geological bet. All faults, shear zones, fractures and rock contacts should be carefully gone over with geiger counter (or scintillometer). Live areas located should be opened up by Pionjar rock drill if at all likely looking since leaching of values often renders the surface exposure very deceptive at first glance. Many respectable occurrences have recently been disclosed by these methods on what were initially none-too-promising looking showings.

If warranted, favored locations uncovered by the above methods should be diamond drilled.

Material on all of the above five groups of Lorado holdings is:

Respectfully submitted,

Uranium, Saskatchewan, August 29th, 1953.

"C. S. JOHNSTON," P.Eng.

CERTIFICATE

I, Colin S. Johnston, of the City of Toronto, in the Province of Ontario, hereby certify as follows:

1. That I am a Mining Engineer and reside at 251 Cortleigh Boulevard in the City of Toronto.
2. That I am a graduate of Queen's University, Kingston, Ontario, and have been practising my profession for 28 years; and am a member of the Association of Professional Engineers of the Province of Ontario.
3. That I have no interest, either directly or indirectly, and I do not expect to receive any interest, either directly or indirectly, in the properties covered by this report or in any securities of the company for which the properties referred to herein were transferred, except that I have an interest in the vendor shares to the extent of 20,000 shares, 10 per cent of which are free. A further 20 per cent of the remaining pooled shares were freed at a recent date.
4. That the accompanying report is based on personal examination of each of the five Lorado Groups as of the following dates: Alco Group—August 3rd, 1953; Gail-Alan-Dix Group—August 27th, 1953; Lor Group—June 29th and 30th, 1953; Dot Group—June 6th, 1953; Chas Group—October, 1950.
5. This certificate applies to the five group holdings of Lorado Uranium Mines Limited.

Dated at Uranium, Saskatchewan, this 29th day of August, 1953.

"C. S. JOHNSTON," P.Eng.

